

Certification Of Conformity
On Behalf of
Shenzhen Peilin Sports Technology Company Ltd.

ROPE SKIPPING AUTO DETECTION SYSTEM
Model No.: PL-007

Prepared for : Shenzhen Peilin Sports Technology Company Ltd.
Address : No.28, Industrial North district of XinHe Community,
Fuyong Town, BaoAn District, Shenzhen, China. 518103

Prepared By : Coffee-T Electronics Technology Co Ltd
Address : Unit 12, 8F Honghai Building, Qianhai
Road, Nanshan, Shenzhen, China
+86-755-86622903
+86-755-86622819

Report Number : CTE13GR-218F
Date of Test : Jul. 11~ Jul. 25, 2013
Date of Report : Jul. 25, 2013

TABLE OF CONTENTS

Description

Page

Test Report Verification

| | |
|--|-----------|
| 1. GENERAL INFORMATION..... | 4 |
| 1.1. Description of Device (EUT)..... | 4 |
| 1.2. Description of Test Facility..... | 5 |
| 1.3. Measurement Uncertainty..... | 5 |
| 1.4. Test Summary..... | 5 |
| 2. POWER LINE CONDUCTED MEASUREMENT..... | 6 |
| 2.1. Test Equipment..... | 6 |
| 2.2. Block Diagram of Test Setup..... | 6 |
| 2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15 Class B)..... | 6 |
| 2.4. Configuration of EUT on Measurement..... | 6 |
| 2.5. Operating Condition of EUT..... | 7 |
| 2.6. Test Procedure..... | 7 |
| 2.7. Power Line Conducted Emission Measurement Results..... | 7 |
| 3.RADIATED EMISSION MEASUREMENT..... | 10 |
| 3.1. Test Equipment..... | 10 |
| 3.2. Block Diagram of Test Setup..... | 10 |
| 3.3. Radiated Emission Limit (Subpart B Class B)..... | 10 |
| 3.4. EUT Configuration on Measurement..... | 11 |
| 3.5. Operating Condition of EUT..... | 11 |
| 3.6. Test Procedure..... | 11 |
| 3.7. Radiated Emission Measurement Results..... | 11 |

APPENDIX I (Photos of EUT) (4 Pages)

TEST REPORT CERTIFICATION

Applicant : Shenzhen Peilin Sports Technology Company Ltd.
Manufacturer : Shenzhen Peilin Sports Technology Company Ltd.
EUT : Rope Skipping Auto Detection System
Model No. : PL-007
Rating : Input: AC 100-240V, 50-60Hz for adapter
Output: DC 12V, 3A
Trade Mark : N/AM

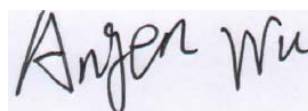
Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B 2011 & FCC / ANSI C63.4-2009

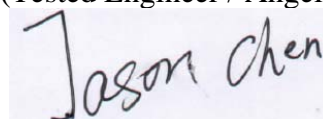
The device described above is tested by Coffee-T Electronics Technology Co Ltd to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Coffee-T Electronics Technology Co Ltd is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Coffee-T Electronics Technology Co Ltd

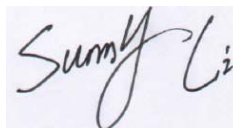
Date of Test : Jul. 11~ Jul. 25, 2013



Prepared by : (Tested Engineer / Angel wu)



Reviewer : (Project Manager / Jason Chen)



Approved & Authorized Signer : (Manager / Sumy li)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Rope Skipping Auto Detection System

Model Number : PL-007

Test Power Supply : Input: AC 100-240V, 50-60Hz for adapter
Output: DC 12V, 3A

Applicant : Shenzhen Peilin Sports Technology Company Ltd.
Address : No.28, Industrial North district of XinHe Community,
Fuyong Town, BaoAn District, Shenzhen, China. 51810

Manufacturer : Shenzhen Peilin Sports Technology Company Ltd.
Address : No.28, Industrial North district of XinHe Community,
Fuyong Town, BaoAn District, Shenzhen, China. 51810

Date of receipt : Jul. 11, 2013

Date of Test : Jul. 11~ Jul. 25, 2013

Attachment Description

| | Accessory | Function | Remark |
|---|-------------|------------------------|--|
| 1 | Speaker | Playing Music | / |
| 2 | Blanket | Rope skipping on it | / |
| 3 | Hand Shank | Used for rope skipping | only use one when rope skipping |
| 4 | Scanner | Bar code scanning | Scanning the student ID barcode into computer |
| 5 | Wire Stock | Multicore cables | connect the host and other parts |
| 6 | Card Reader | RFID Reader | Read the RFID electronic tag on the vice hand shank |

1.2. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, August 20, 2010.

1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

1.4. Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions.

Table 1 : Tests Carried Out Under FCC Part 15 Subpart B

| Standard | Test Items | Status |
|-----------------------|--|--------|
| FCC Part 15 Subpart B | Power Line Conducted Emission Test (150KHz To 30MHz) | √ |
| FCC Part 15 Subpart B | Radiated Emission Test (30MHz To 1000MHz) | √ |

√ Indicates that the test is applicable

x Indicates that the test is not applicable

2. POWER LINE CONDUCTED MEASUREMENT

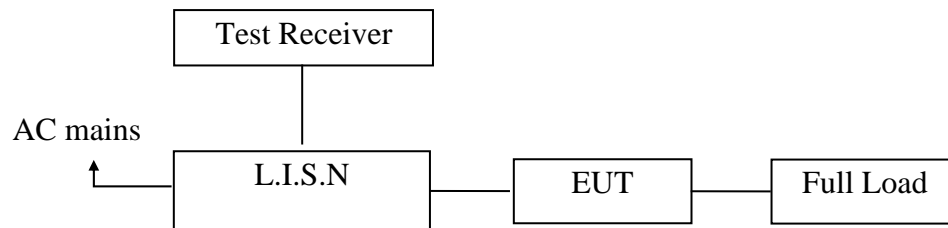
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|----------------------|-----------|------------|---------------|---------------|
| 1. | Two-Line V-network | Rohde & Schwarz | ENV216 | 10055 | Apr. 23, 2013 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Apr. 23, 2013 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Apr. 23, 2013 | 1 Year |

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



(EUT: Rope Skipping Auto Detection System)

2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15

Class B)

| Frequency MHz | Limits dB(μV) | |
|------------------|------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

2.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Rope Skipping Auto Detection System
Model Number : PL-007
Applicant : Shenzhen Peilin Sports Technology Company Ltd.

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown as Section 2.2.
- 2.5.2. Turn on the power of all equipment.
- 2.5.3. Let the EUT work in test mode (Full Load) and measure it.

2.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 2.7.

2.7. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

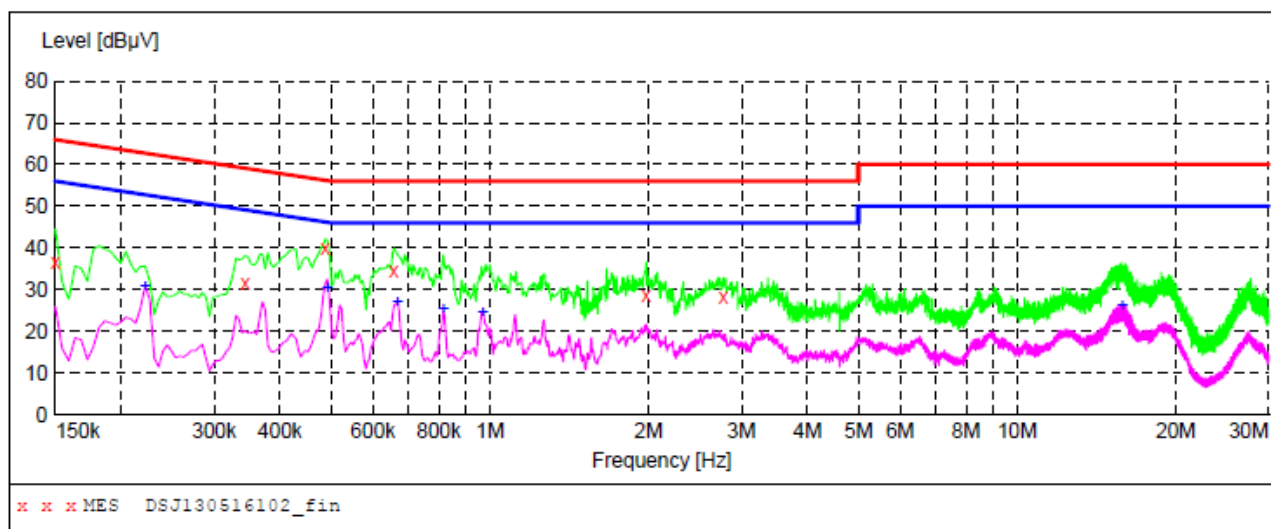
The test curves are shown in the following pages.

**CONDUCTED EMISSION TEST DATA**

EUT: Rope Skipping Auto Detection System M/N:PL-007
Operating Condition: ON
Test Site: 1# Shielded Room
Operator: Finley Li
Test Specification: AC 120V, 60Hz
Comment: N
Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "DSJ130516102_fin"**

7/13/2013 2:59PM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000 | 36.40 | 20.1 | 66 | 29.6 | QP | N | GND |
| 0.343500 | 31.70 | 20.1 | 59 | 27.4 | QP | N | GND |
| 0.487500 | 40.10 | 20.1 | 56 | 16.1 | QP | N | GND |
| 0.658500 | 34.70 | 20.1 | 56 | 21.3 | QP | N | GND |
| 1.981000 | 28.70 | 20.3 | 56 | 27.3 | QP | N | GND |
| 2.773000 | 28.30 | 20.4 | 56 | 27.7 | QP | N | GND |

MEASUREMENT RESULT: "DSJ130516102_fin2"

7/13/2013 2:59PM

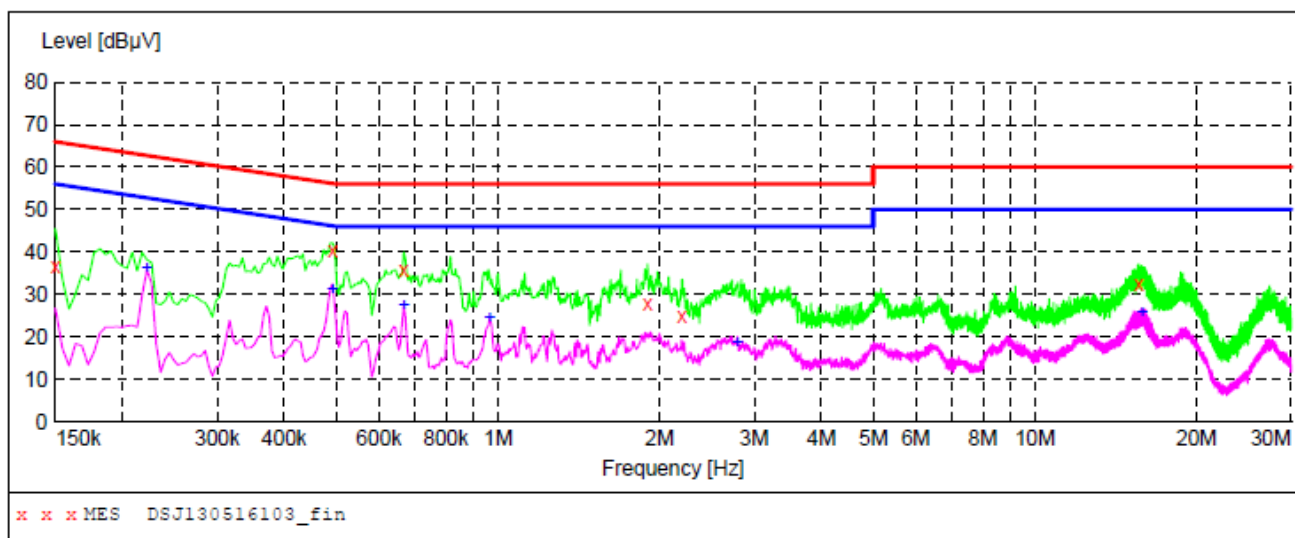
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.222000 | 30.80 | 20.1 | 53 | 21.9 | AV | N | GND |
| 0.492000 | 30.20 | 20.1 | 46 | 15.9 | AV | N | GND |
| 0.667500 | 27.10 | 20.1 | 46 | 18.9 | AV | N | GND |
| 0.816000 | 25.40 | 20.1 | 46 | 20.6 | AV | N | GND |
| 0.969000 | 24.40 | 20.2 | 46 | 21.6 | AV | N | GND |
| 15.827500 | 26.00 | 20.7 | 50 | 24.0 | AV | N | GND |

**CONDUCTED EMISSION TEST DATA**

EUT: Rope Skipping Auto Detection System M/N:PL-007
Operating Condition: ON
Test Site: 1# Shielded Room
Operator: Finley Li
Test Specification: AC 120V, 60Hz
Comment: L
Tem:25°C Hum:50%

SCAN TABLE: "Voltage(150K~30M)FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "DSJ130516103_fin"**

7/13/2013 3:02PM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000 | 36.50 | 20.1 | 66 | 29.5 | QP | L1 | GND |
| 0.492000 | 40.30 | 20.1 | 56 | 15.8 | QP | L1 | GND |
| 0.667500 | 35.90 | 20.1 | 56 | 20.1 | QP | L1 | GND |
| 1.900000 | 28.00 | 20.3 | 56 | 28.0 | QP | L1 | GND |
| 2.201500 | 25.00 | 20.3 | 56 | 31.0 | QP | L1 | GND |
| 15.598000 | 32.60 | 20.7 | 60 | 27.4 | QP | L1 | GND |

MEASUREMENT RESULT: "DSJ130516103_fin2"

7/13/2013 3:02PM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.222000 | 36.00 | 20.1 | 53 | 16.7 | AV | L1 | GND |
| 0.492000 | 31.30 | 20.1 | 46 | 14.8 | AV | L1 | GND |
| 0.667500 | 27.50 | 20.1 | 46 | 18.5 | AV | L1 | GND |
| 0.964500 | 24.50 | 20.2 | 46 | 21.5 | AV | L1 | GND |
| 2.791000 | 18.70 | 20.4 | 46 | 27.3 | AV | L1 | GND |
| 15.818500 | 25.80 | 20.7 | 50 | 24.2 | AV | L1 | GND |

3.RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

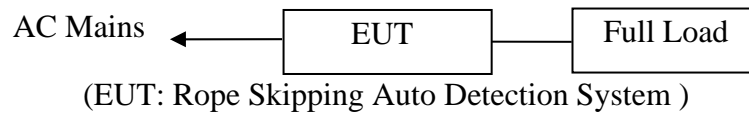
The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------------|-----------------|-----------|---------------|---------------|---------------|
| 1. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Apr. 23, 2013 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 23, 2013 | 1 Year |
| 3. | Pre-amplifier | SONOMA | 310N | 186860 | Apr. 23, 2013 | 1 Year |

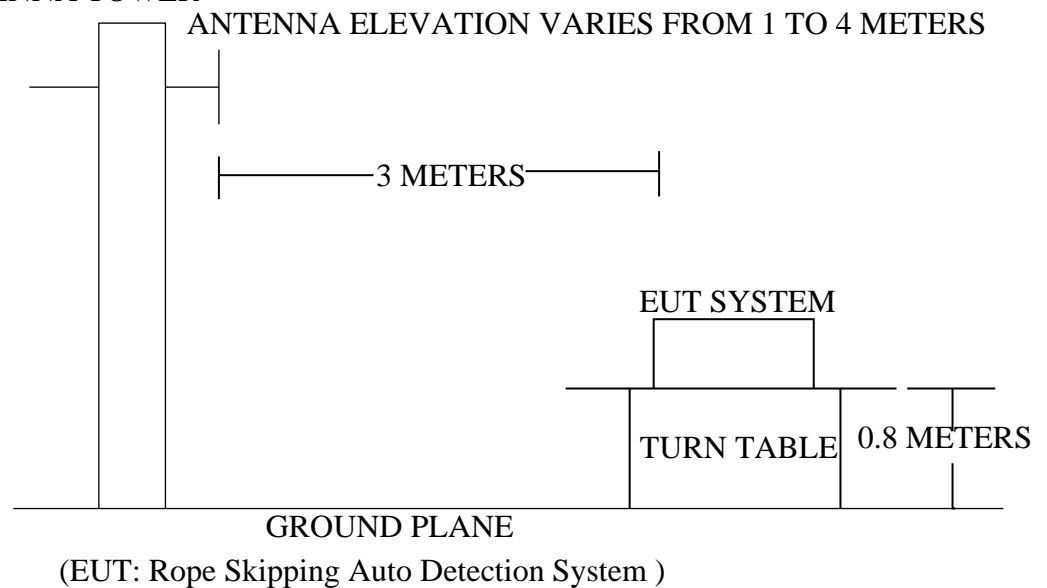
3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



3.2.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



3.3. Radiated Emission Limit (Subpart B Class B)

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|-----------------------|-----------------------------------|
| | | $\mu\text{V/m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 30~88 | 3 | 100 | 40.0 |
| 88~216 | 3 | 150 | 43.5 |
| 216~960 | 3 | 200 | 46.0 |
| 960~1000 | 3 | 500 | 54.0 |

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|-----------------------|-------------------|
| | | PK dB(μ V)/m | AV dB(μ V)/m |
| 1000~3000 | 3 | 74.0 | 54.0 |

- Remark :
- (1) Emission level (dB) μ V = 20 log Emission level μ V/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

EUT : Rope Skipping Auto Detection System
Model Number : PL-007
Applicant : Shenzhen Peilin Sports Technology Company Ltd.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2.

3.5.2. Let the EUT work in test mode (Full Load) and measure it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

The test mode (Full Load) is tested in chamber and all the test results are listed in Section 3.7.

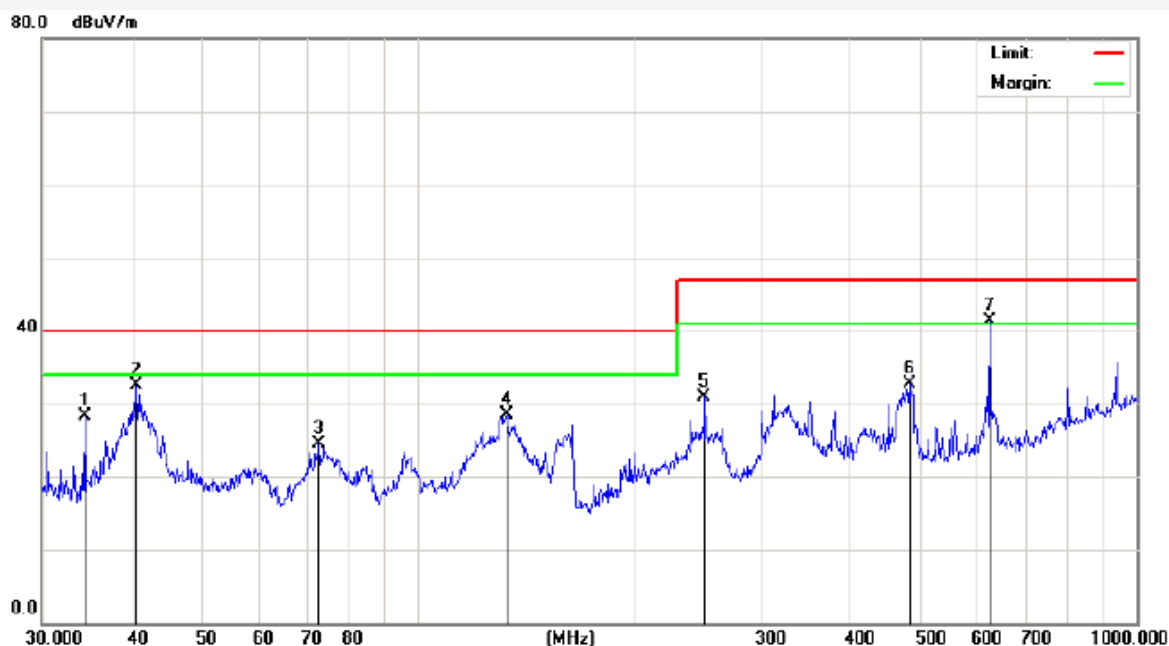
3.7. Radiated Emission Measurement Results

PASS.

The test curves are shown in the following pages.

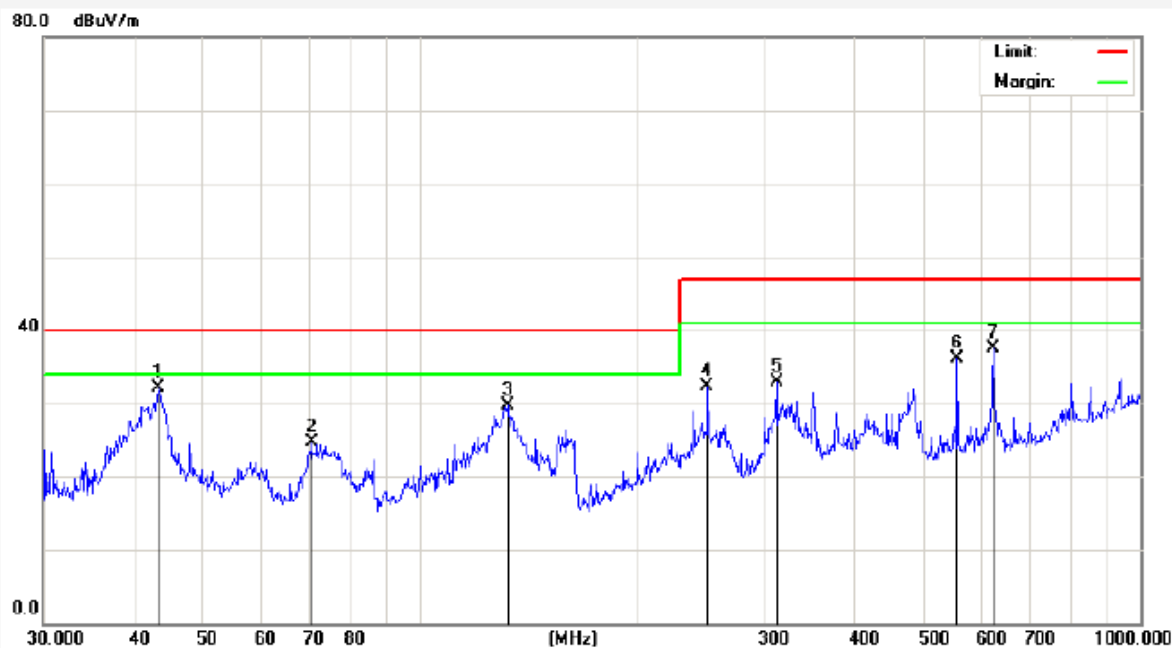
Unit 12, 8F Honghai Building, Qianhai Road, Nanshan, Shenzhen, China
Tel: +86-755-86622903(50 Lines) Fax: +86-755-86622819
[Http://www.szkht.com.cn](http://www.szkht.com.cn)

| | | | |
|----------------------------|--|----------------------|----------------------|
| Job No.: | CTE13GR-219F | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 B _3m | Power Source: | AC 120V, 60Hz |
| Test item: | Radiation Test | Date: | 2013/07/19 |
| Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | Time: | 18:21:34 |
| EUT: | Rope Skipping Auto Detection System | Test By: | Jimly Chen |
| Model: | PL-007 | Distance: | 3m |
| Note: | ON | | |



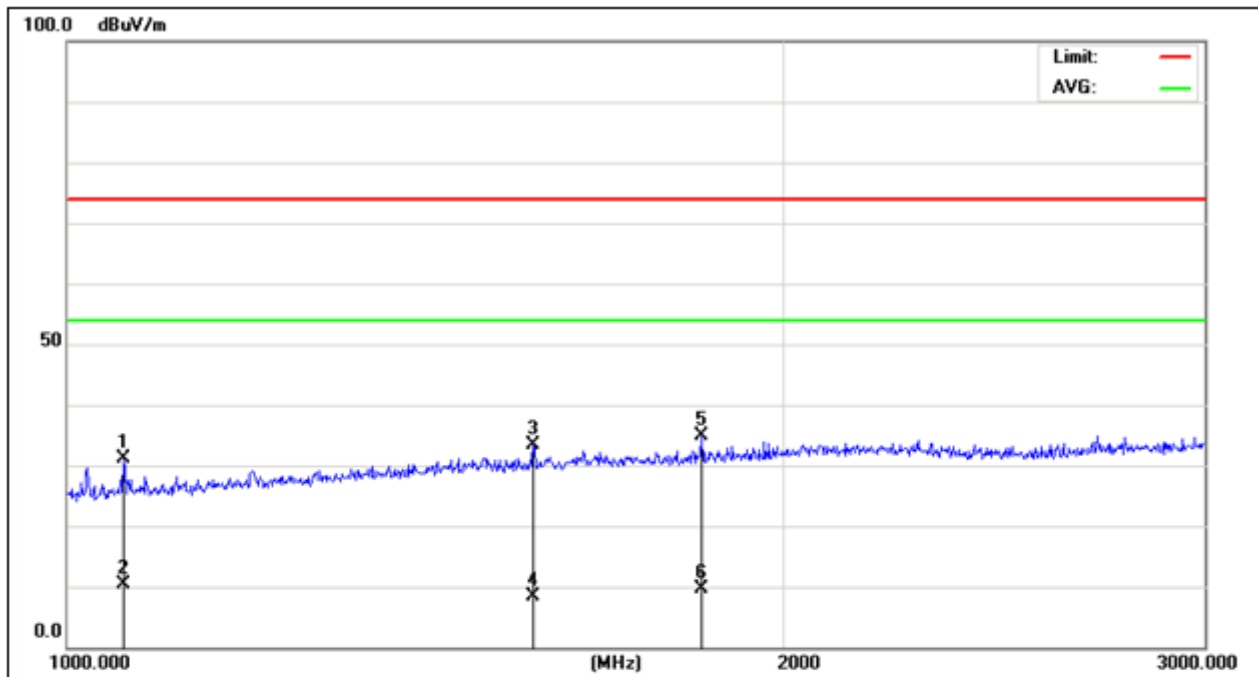
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|---------------|-----------------|----------|-------------|--------------|--------|
| 1 | 34.3964 | 42.93 | -14.61 | 28.32 | 40.00 | -11.68 | peak | | | |
| 2 | 40.5591 | 43.10 | -10.58 | 32.52 | 40.00 | -7.48 | peak | | | |
| 3 | 72.8466 | 44.69 | -20.17 | 24.52 | 40.00 | -15.48 | peak | | | |
| 4 | 132.6850 | 46.43 | -18.00 | 28.43 | 40.00 | -11.57 | peak | | | |
| 5 | 250.3012 | 44.97 | -14.04 | 30.93 | 47.00 | -16.07 | peak | | | |
| 6 | 482.2156 | 44.19 | -11.47 | 32.72 | 47.00 | -14.28 | peak | | | |
| 7 | 623.9980 | 50.34 | -9.04 | 41.30 | 47.00 | -5.70 | QP | 100 | 0 | |

| | | | |
|----------------------------|--|----------------------|----------------------|
| Job No.: | CTE13GR-219F | Polarization: | Vertical |
| Standard: | (RE)FCC PART15 B _3m | Power Source: | AC 120V, 60Hz |
| Test item: | Radiation Test | Date: | 2013/07/19 |
| Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | Time: | 18:13:46 |
| EUT: | Rope Skipping Auto Detection System | Test By: | Jimly Chen |
| Model: | PL-007 | Distance: | 3m |
| Note: | ON | | |



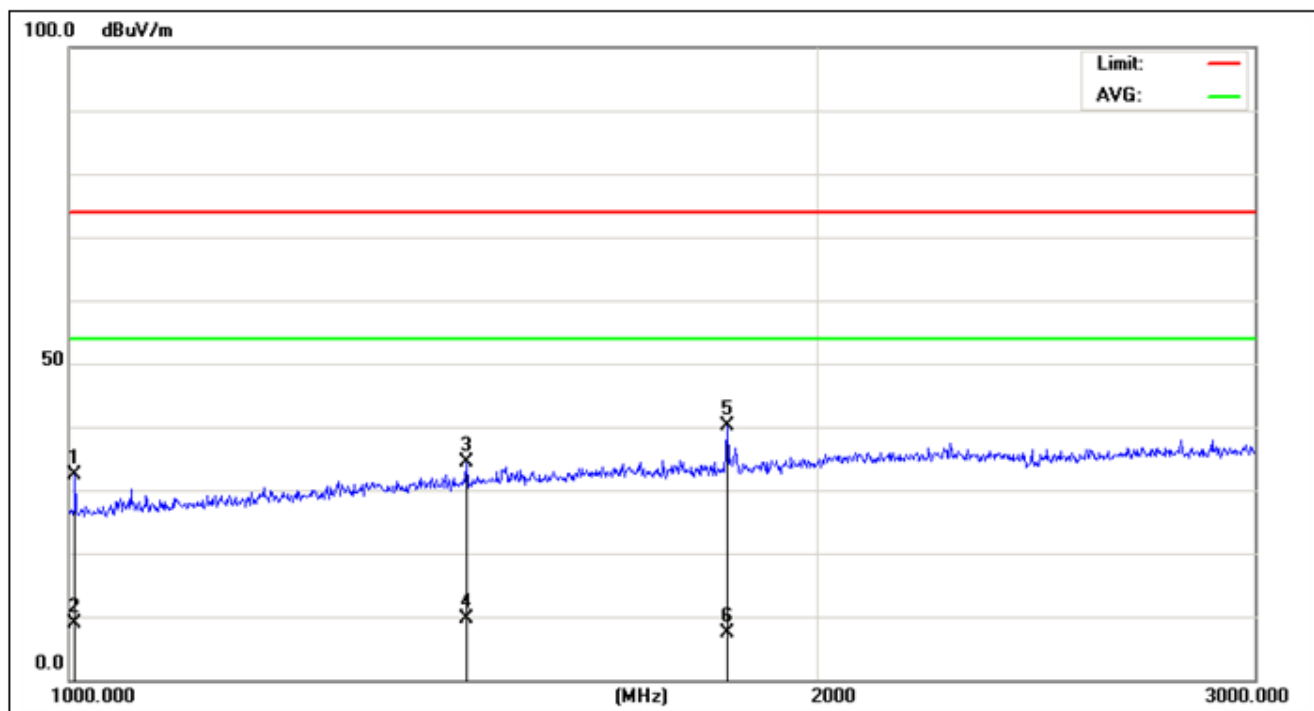
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/ | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1 | 43.3534 | 43.87 | -11.68 | 32.19 | 40.00 | -7.81 | peak | | | |
| 2 | 70.5836 | 44.52 | -19.74 | 24.78 | 40.00 | -15.22 | peak | | | |
| 3 | 132.2206 | 47.74 | -17.96 | 29.78 | 40.00 | -10.22 | peak | | | |
| 4 | 250.3012 | 46.34 | -14.04 | 32.30 | 47.00 | -14.70 | peak | | | |
| 5 | 312.1794 | 47.27 | -14.43 | 32.84 | 47.00 | -14.16 | peak | | | |
| 6 | 556.7744 | 46.07 | -9.99 | 36.08 | 47.00 | -10.92 | peak | | | |
| 7 | 625.0780 | 46.60 | -9.05 | 37.55 | 47.00 | -9.45 | peak | | | |

| | | | |
|----------------------------|-------------------------------------|----------------------|---------------|
| Job No.: | CTE13GR-219F | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 B _3m | Power Source: | AC 120V, 60Hz |
| Test item: | Radiation Test | Date: | 2013/07/25 |
| Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | Time: | 15:21:34 |
| EUT: | Rope Skipping Auto Detection System | Test By: | Jimly Chen |
| Model: | PL-007 | Distance: | 3m |
| Note: | ON | | |



| No. | Frequency | Reading | Correct | Result | Limit | Over Limit | Detector | Height | Degree |
|-----|-----------|----------|---------|----------|----------|------------|----------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | | (cm) | (deg) |
| 1 | 1056.467 | 46.02 | -14.80 | 31.22 | 74.00 | -42.78 | peak | | |
| 2 | 1056.467 | 25.17 | -14.80 | 10.37 | 54.00 | -43.63 | AVG | 300 | 360 |
| 3 | 1568.988 | 43.70 | -10.20 | 33.50 | 74.00 | -40.50 | peak | | |
| 4 | 1568.988 | 18.57 | -10.20 | 8.37 | 54.00 | -45.63 | AVG | 300 | 0 |
| 5 | 1846.008 | 43.40 | -8.60 | 34.80 | 74.00 | -39.20 | peak | | |
| 6 | 1846.008 | 18.22 | -8.60 | 9.62 | 54.00 | -44.38 | AVG | 300 | 360 |

| | | | |
|----------------------------|-------------------------------------|----------------------|---------------|
| Job No.: | CTE13GR-219F | Polarization: | Vertical |
| Standard: | (RE)FCC PART15 B_3m | Power Source: | AC 120V, 60Hz |
| Test item: | Radiation Test | Date: | 2013/07/25 |
| Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | Time: | 15:25:34 |
| EUT: | Rope Skipping Auto Detection System | Test By: | Jimly Chen |
| Model: | PL-007 | Distance: | 3m |
| Note: | ON | | |



| No. | Frequency | Reading | Correct | Result | Limit | Over Limit | Detector | Height | Degree |
|-----|-----------|----------|---------|----------|----------|------------|----------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | | (cm) | (deg) |
| 1 | 1005.508 | 46.68 | -14.28 | 32.40 | 74.00 | -41.60 | peak | | |
| 2 | 1005.508 | 23.13 | -14.28 | 8.85 | 54.00 | -45.15 | AVG | 100 | 0 |
| 3 | 1444.893 | 43.89 | -9.59 | 34.30 | 74.00 | -39.70 | peak | | |
| 4 | 1444.893 | 19.26 | -9.59 | 9.67 | 54.00 | -44.33 | AVG | 100 | 360 |
| 5 | 1839.934 | 46.87 | -6.84 | 40.03 | 74.00 | -33.97 | peak | | |
| 6 | 1839.934 | 14.21 | -6.84 | 7.37 | 54.00 | -46.63 | AVG | 100 | 0 |